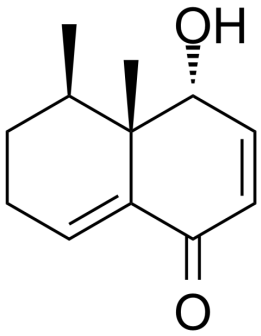
Desoxo-narchinol A

Cat. No.:	HY-N8435
CAS No.:	53859-06-6
Molecular Formula:	$C_{12}H_{16}O_2$
Molecular Weight:	192.25
Target:	TNF Receptor; COX; NO Synthase; PGE synthase
Pathway:	Apoptosis; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Desoxo-narchinol A is an orally active and potent anti-inflammatory agent. Desoxo-narchinol A can be isolated from the roots and rhizomes of Nardostachys jatamansi. Desoxo-narchinol A can be used for septic shock and inflammatory diseases research[1][2][3].
In Vitro	Desoxo-narchinol A inhibits tissue injury and production of pro-inflammatory cytokines, such as IL-1β, IL-6, and TNF-α, in the liver and lung[2]. Desoxo-narchinol A (0-500 nM, 24 h) inhibits the production of inflammatory mediators, such as iNOS and its derivative NO, COX-2, PGE2, IL-1β, IL-6 and TNF-α and H3 protein acetylation in murine peritoneal macrophages[2]. Desoxo-narchinol A inhibits LPS-induced activation of p38 in murine macrophages[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Desoxo-narchinol A (0-0.5 mg/kg, IP, once) dramatically reduced mortality in a murine LPS-induced endotoxin shock model [2]. Desoxo-narchinol A (50 mg/kg, PO, once) shows the oral bioavailability of 18.1% in rats and 28.4% in mice[3] MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Itokawa H, et al. Cytotoxic sesquiterpenes from Nardostachys chinensis. Chem Pharm Bull (Tokyo). 1993 Jun;41(6):1183-4.

[2]. Shin JY, et al. Anti-inflammatory effect of desoxo-narchinol-A isolated from Nardostachys jatamansi against lipopolysaccharide. Int Immunopharmacol. 2015 Dec;29(2):730-738.

[3]. Thapa SK, Upadhyay M, Kim TH, Shin S, Park SJ, Shin BS. Liquid Chromatography-Tandem Mass Spectrometry of Desoxo-Narchinol a and Its Pharmacokinetics and Oral Bioavailability in Rats and Mice. Molecules. 2019 May 28;24(11):2037.

Caution: Product has not been fully validated for medical applications. For research use only.

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